

Title (en)

PHASE VARIATION RECORDING MATERIAL AND INFORMATION RECORDING MEDIUM

Title (de)

AUFZEICHNUNGSMATERIAL MIT PHASENÄNDERUNG UND INFORMATIONSAUFZEICHNUNGSMEDIUM

Title (fr)

MATERIAU D'ENREGISTREMENT A VARIATION DE PHASE ET SUPPORT D'ENREGISTREMENT D'INFORMATIONS

Publication

**EP 1607232 A4 20090415 (EN)**

Application

**EP 04722966 A 20040324**

Priority

- JP 2004004002 W 20040324
- JP 2003079834 A 20030324

Abstract (en)

[origin: US2005202200A1] A phase-change recording material on which high speed recording/erasing is possible, which has excellent recording characteristics, which has a high storage stability of recording signals and which is excellent in the repeated recording durability, and an information recording medium using the above material are provided. A phase-change recording material characterized by containing as the main component a composition represented by {(Sb<SUB>1-x</SUB>Ge<SUB>x</SUB>)<SUB>1-y</SUB>In<SUB>y</SUB><SUB>1-z</SUB>M<SUB>z</SUB>Te<SUB>w</SUB>} wherein x, y, z and w are numbers satisfying  $0.001 \leq x \leq 0.3$ ,  $0 \leq y \leq 0.4$ ,  $0 \leq z \leq 0.2$  and  $0 \leq w \leq 0.1$ , and M is at least one element selected from lanthanoids, provided that z and w are not 0 at the same time.

IPC 1-7

**B41M 5/26**; **G11B 7/24**

IPC 8 full level

**G11B 7/243** (2013.01); **G11B 7/0045** (2006.01); **G11B 7/24** (2013.01); **G11B 7/258** (2013.01); **H01L 45/00** (2006.01)

CPC (source: EP US)

**G11B 7/243** (2013.01 - EP US); **G11B 7/00456** (2013.01 - EP US); **G11B 7/24** (2013.01 - EP US); **G11B 7/258** (2013.01 - EP US); **G11B 2007/2431** (2013.01 - EP US); **G11B 2007/24312** (2013.01 - EP US); **G11B 2007/24314** (2013.01 - EP US); **G11B 2007/24316** (2013.01 - EP US); **H10N 70/026** (2023.02 - EP US); **H10N 70/231** (2023.02 - EP US); **H10N 70/826** (2023.02 - EP US); **H10N 70/8413** (2023.02 - EP US); **H10N 70/884** (2023.02 - EP US); **Y10T 428/21** (2015.01 - EP US)

Citation (search report)

- [XY] GB 2312083 A 19971015 - LG ELECTRONICS INC [KR]
- [Y] US 2002146643 A1 20021010 - SHINGAI HIROSHI [JP], et al
- See references of WO 2004085168A1

Cited by

WO2007105662A1; US8075974B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**US 2005202200 A1 20050915**; **US 7081289 B2 20060725**; CN 1756667 A 20060405; CN 1756667 B 20110608; EP 1607232 A1 20051221; EP 1607232 A4 20090415; TW 200423115 A 20041101; TW 200639854 A 20061116; TW I300926 B 20080911; TW I354284 B 20111211; WO 2004085168 A1 20041007

DOCDB simple family (application)

**US 11311905 A 20050425**; CN 200480005588 A 20040324; EP 04722966 A 20040324; JP 2004004002 W 20040324; TW 93107968 A 20040324; TW 95128198 A 20040324